

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently amended) A method for deuteration of a compound having an ~~aromatic-benzene~~ ring, comprising reacting the compound having an optionally substituted ~~aromatic-benzene~~ ring with a heavy hydrogen source in the presence of an activated mixed catalyst ~~comprising at least two catalysts selected from the group consisting of a palladium catalyst[[,]] and a platinum catalyst[[,]] a rhodium catalyst, an iridium catalyst, a ruthenium catalyst, a nickel catalyst, and a cobalt catalyst~~ under sealed reflux condition.
2. (Original) The method for deuteration according to claim 1, wherein the heavy hydrogen source is a deuterated solvent.
3. (Original) The method for deuteration according to claim 2, wherein the deuterated solvent is heavy water (D₂O).
4. (Currently amended) The method for deuteration according to claim 1, wherein the activated mixed catalyst is a catalyst obtained by activating ~~a mixed catalyst comprising at least two catalysts selected from the group of non-activated catalysts consisting of a palladium catalyst[[,]] and a platinum catalyst[[,]] a rhodium catalyst, an iridium catalyst, a ruthenium catalyst, a nickel catalyst, and a cobalt catalyst~~ by contacting the non-activated catalysts with hydrogen gas or heavy hydrogen gas.
5. (Original) The method for deuteration according to claim 4, wherein the contact of the non-activated mixed catalyst with hydrogen gas or heavy hydrogen gas is carried out in a reaction system of the deuteration.

6. (Cancelled)

7. (Currently Amended) The method for deuteration according to claim ~~[[6]]~~1, wherein the palladium catalyst is palladium carbon.

8. (Currently Amended) The method for deuteration according to claim ~~[[6]]~~1, wherein the platinum catalyst is platinum carbon.

9. (Currently Amended) The method for deuteration according to claim ~~[[6]]~~1, wherein the activated mixed catalyst of a palladium catalyst and a platinum catalyst has a weight ratio of each metal in the palladium catalyst and the platinum catalyst of 1:99 to 99: 1.

10. (Currently Amended) The method for deuteration according to claim 1, wherein the compound having an optionally substituted ~~aromatic~~-benzene ring has at least one optionally substituted alkyl group bonded to the ~~aromatic~~-benzene ring.

11. (Currently Amended) The method for deuteration according to claim 1, wherein the compound having an optionally substituted ~~aromatic~~-benzene ring has an alkylamino group bonded to the ~~aromatic~~-benzene ring.

12. (Currently Amended) The method for deuteration according to claim 1, wherein the compound having an optionally substituted ~~aromatic~~-benzene ring has a carboxyl group bonded to the ~~aromatic~~-benzene ring.

13. (Currently Amended) The method for deuteration according to claim 1, wherein the compound having an optionally substituted ~~aromatic~~-benzene ring has at least one optionally substituted alkenyl group bonded to the ~~aromatic~~-benzene ring.